

P0604628 03
September 17, 2003

Business Communications Manager 3.5

Programming Records

**System identification and hardware
configuration**

**NORTEL
NETWORKS**

Table of Contents

Worksheet 1: General customer and system information

- System Keycodes
- Security settings
- Password security

Worksheet 2: Installed equipment

- Business Communications Manager equipment
- Media Bay Modules
- IP trunk requirements
- Auxiliary equipment
- Peripherals (Telephones and support equipment)
- BST Doorphones

Worksheet 3: System Users

- User Group Privileges

Worksheet 4: BCM network connections

- LAN Parameters
- WAN parameters
- Dial-up Resources
- V.90 Modem Parameters
- ISDN Dial-up Parameters

Worksheet 5: Split T1

- DDI MUX configuration
- UTWAN configuration

Worksheet 6: MSC and Media Bay Module Configurations

- MSC Configuration
- Media Bay Module locations
- PRI-specific configuration

General customer and system information

Customer/Company

Name		
Address		
Telephone		
Other contact numbers		
Billing number		

System coordinator

Telephone		
Email/Fax		

Supplier

Address		
Telephone		
Email/Fax		

Customer service representative

Installer		
Contact numbers		
Installation date		
System notes		

System Keycodes

If you have any optional applications such as CallPilot or PRI networks, you need keycodes to activate the features. Make a note of these codes, as they may not get regenerated in some upgrade circumstances.

[illegible]

System Identification and initialization

Note: Most of this information is specified in the Quick Start Wizard when you first start your system. Some of the settings can be adjusted within the Unified Manager

System information	Where to find or enter the information:
Security certificate?	
System identifier	
System Name	
Market Profile/Companding law	
Time zone	
DS30 channel split	
Density setting	
System language	
CallPilot Region and DN	
IVR DN	
DN lengths/ Received # length	
LAN 1 IP Address	
LAN 1 Subnet Mask	
Next Hop on Primary Link (Net Link Manager)	

Security settings

Security headings	Level of security
Authentication Compatibility	
Clear Page File on Shutdown	
SMB Client Signing	
SMB Server Signing	
Domain Secure Channel	
Force Secure Web Access	
Minimum Web Encryption	

Password security

Lockout Policy	Enabled
Attempts before lockout	50
Count reset (minutes)	30
Lockout duration (minutes)	30
Minimum Password Length	8
Password complexity	3

Installed equipment

Business Communications Manager eq

Quantity	(BCM1000/BCM200/BCM400)	Equipment
		Base unit serial #
		Expansion unit serial #

Media Bay Modules

Quantity	DS30	Type of trunk module	Lines or loops
		DTM (ISDN PRI/BRI/T1)	
		DDI-MUX (ISDN PRI/DATA)	Tlphny: Data:
		CTM (analog)	
		CTM8 (analog)	
		4X16 (analog)	
		DECT (only available for specific profiles)	
		FEM (Fiber Expansion Module)	
		BRI (ISDN BRI)	
		GATM4	
		GATM8	

IP trunk requirements

Quantity	Ports	Trunk types	
		VoIP/SIP (requires keycode)	
		NetMeeting	
Quantity	DS30	Type of station module	DNs
		ASM	
		ASM8	
		DSM16/16+	
		DSM32/32+	

Auxiliary equipment

		analog terminal adaptor (ATA or ATA2)	
		external paging equipment	
		external music source	
		auxiliary ringer	
		shoulder rest	
		headset	
		station auxiliary power supply (SAPS)	
		Universal power supply (UPS)	
		Companion plug to power supply	
		Companion radio frequency (RF) filter kit	

Installed equipment

Peripherals (Telephones and support equipment)

Quantity		Description	
		T7000 Business Series Terminal	
		T7100 Business Series Terminal	
		T7208 Business Series Terminal	
		T7316 Business Series Terminal	
		T7316E Business Series Terminal	
		T7316E with KIMs	
		M7000 Norstar telephone	
		M7100/M7100N Norstar telephone	
		M7208/M208N Norstar telephone	
		M7310/M7316 Norstar telephone	
		M7324/M7324N Norstar telephone	
		M7324 with CAP modules	
		BST Doorphone	
		DOCs or ERMs	

IP telephones

		i2002 IP telephone	
		i2004 IP telephone	
		i2001 IP telephone	
		i2050 Nortel Networks Software Phone	
		NetVision telephone	
		NetVision Data telephone	

Wireless telephones

		Companion C3020 portable telephone	
		Companion C3020 charger	
		Companion C3050 portable telephone	
		Companion C3050 charger	
		Companion C3060 portable telephone	
		Companion C3060 charger	
		C1110 base stations (PGI)	
		DECT cordless handsets	
		DECT base stations (1:8)	
		T7406 cordless handsets	
		T7406 base stations (1:3)	

Notes:

BST Doorphones							
	Dph 1	Dph 2	Dph 3	Dph 4	Dph 5	Dph 6	
Doorphone DN							
Speaker Volume							
Chime volume							
Call Action							
Target DN							
Answer DNs on target							
Ring Delay							
Page Target							
Page Zone							
Chime sequence							
Customer Chime							
Opener Type							
	Dph 7	Dph 8	Dph 9	Dph 10	Dph 11	Dph 12	
Doorphone DN							
Speaker Volume							
Chime volume							
Call Action							
Target DN							
Answer DNs on target							
Ring Delay							
Page Target							
Page Zone							
Chime sequence							
Customer Chime							
Opener Type							
	Dph 13	Dph 14	Dph 15	Dph 16	Dph 17	Dph 18	
Doorphone DN							
Speaker Volume							
Chime volume							
Call Action							
Target DN							
Answer DNs on target							
Ring Delay							
Page Target							
Page Zone							
Chime sequence							
Customer Chime							
Opener Type							

BST Doorphones						
	Dph 19	Dph 20	Dph 21	Dph 22	Dph 23	Dph 24
Doorphone DN						
Speaker Volume						
Chime volume						
Call Action						
Target DN						
Answer DNs on target						
Ring Delay						
Page Target						
Page Zone						
Chime sequence						
Customer Chime						
Opener Type						
	Dph 25	Dph 26	Dph 27	Dph 28	Dph 29	Dph 30
Doorphone DN						
Speaker Volume						
Chime volume						
Call Action						
Target DN						
Answer DNs on target						
Ring Delay						
Page Target						
Page Zone						
Chime sequence						
Customer Chime						
Opener Type						
	Dph 31	Dph 32	Dph 33	Dph 34	Dph 35	Dph 36
Doorphone DN						
Speaker Volume						
Chime volume						
Call Action						
Target DN						
Answer DNs on target						
Ring Delay						
Page Target						
Page Zone						
Chime sequence						
Customer Chime						
Opener Type						

System Users

You use passwords to access the Unified Manager and various components of the system. The passwords provided below are default system passwords. Ensure that you change these passwords as soon as your system has been installed and tested.

You can create system passwords for various levels of access in the Unified Manager under Management, User Management. Ensure that you maintain at least one supervisory password with full privileges.

[illegible]

User Group Privileges

You use passwords to access the Unified Manager. These are system passwords which have default settings. Besides changing the default passwords, you can provide user passwords that provide specific access to

[illegible]

BCM network connections

LAN Parameters

Fast Routing	
Traffic Smoothing	
Decremental TTL	

	LAN 1	LAN 2
IP Address		
Subnet Mask		
Connection Type		
Admin Status		
Primary Wins Address		
Secondary Wins Address		

LAN 1 Additional IP Addresses

Range	IP Address	Subnet Mask

LAN 2 Additional IP Addresses

Range	IP Address	Subnet Mask

BCM network connections, page 2 of 4

WAN parameters

Summary	WAN 1	WAN 2
IP Address		
Subnet Mask		
Link Protocol		
Admin Status		
Frame Size		

Line parameters

Channel Rate		
Clock Source		
Frame Type		
Channel List		
Line Coding		
Line Polarity		
Pulse Density		

WAN Sync parameters

Clock Mode		
DTE Configuration		
Clock Rate		

Frame Relay parameters

LMI Type		
Polling Interval		
Full Enquiry Interval		
Error Threshold		
Monitored Events		
DS Code		
Compression Enabled PVCs		
Access rate		

PPP parameters

LCP Keep Alive interval		
LQR Timer Period		
Authentication Mode		
Outgoing Authentication		
User Name		
Password		
Compression		

BCM network connections, page 4 of 4

WAN parameters, continued ...

[illegible][illegible]

Dial-up Resources

RAS Server TCP/IP Configuration

Allow Network Access	
Static IP Address Pool	
Address Mask	

V.90 Modem Parameters

Modem Configuration	
Modem Status	

V.90 Summary parameters

IP Address		
Status		

V.90 link parameters

Telephone number		
Alternate Telephone Number		
Connect Rate		
Dial Retries		
Dial Interval		
Number Of Rings		
Speaker Mode		
IP Header Compression		
Software Compression		
Hardware Compression		
PPP LCP Extensions		
Disconnect Time		

V.90 Access parameters

Authentication		
Two Way Authentication		
User Name		
User Password		

Dial-up Resources page 2 of 3

ISDN Dial-up Parameters

	ISDN 1	ISDN 2	ISDN 3	ISDN 4	ISDN 5
Add ISDN Dial-up					
Dial in Name					
Password					
Channel					

Summary parameters					
IP Address					
Description					
Status					

Link Parameters					
Dial Retires					
Dial Interval					
IP Header Compression					
Software Compression					
PPP LCP Extensions					
Disconnect Time					
DNS address 1					
DNS address 2					
Protocol					

Access parameters					
Authentication					
Two Way Authentication					

Dial-out User Parameters					
User Name					
Password					

ISDN Channel Characteristics

[illegible]

Dial-up Resources page 3 of 3

ISDN Dial-up Parameters, page 2 of 2

ISDN 6	ISDN 7	ISDN 8	ISDN 9	
				Add ISDN Dial-up
				Dial in Name
				Password
				Channel

				Summary parameters
				IP Address
				Description
				Status

				Link Parameters
				Dial Retires
				Dial Interval
				IP Header Compression
				Software Compression
				PPP LCP Extensions
				Disconnect Time
				DNS address 1
				DNS address 2
				Protocol

				Access parameters
				Authentication
				Two Way Authentication

				Dial-out User Parameters
				User Name
				Password

PPPoE dial-up settings

Add PPPoE dial-up	PPPoE 1	PPPoE 2	PPPoE 3	PPPoE 4
Name				
Password				

Summary parameters

IP Address				
Description				
Status				

Line parameters

Dial retries				
Dial Interval				
IP Header Compression				
Software Compression				
PPP LCP Extensions				
Disconnect Time				
DNS Address 1				
DNS Address 2				
Protocol				

Access parameters

Authentication				
Two-Way authentication				

Dial-out User parameters

User Name				
Password				

PPPoE Channel Characteristics

[illegible]

DDI MUX

DDI MUX Configuration	
Protocol	
B channel data rate	
Transmit clock source	
Transmit clock inversion	
Data inversion	

[illegible]

UTWAN configuration

Line Type		
Line #	Channel #	Fixed Access

UTWAN Summary	
IP Address	
Subnet Mask	
MTU Size	
Link Protocol	

UTWAN Frame Relay parameters	
LMI Type	
Polling Interval	
Missing Status Enquiry	
Expected Status Enquiry	
LMI Polling Interval	
Status Enquiry Msg Wait Interval	
Fragmentation Status	
Low Water Mark	
High Water Mark	

UTWAN Multiple IP Addresses		
Range	IP Address	Subnet Mask

Utwan configuration, page 2 of 4

UTWAN for Frame Relay

UTWAN PVC Configuration

Entry				
PVCName				
DLCI				
Local IP				
Subnet Mask				
CIR				
Excess Burst BE				
DC Retry Time				
DC Retry Count				
Compression				
Broadcast				
End to End Frag				
Frag Size				

Entry				
PVCName				
DLCI				
Local IP				
Subnet Mask				
CIR				
Excess Burst BE				
DC Retry Time				
DC Retry Count				
Compression				
Broadcast				
End to End Frag				
Frag Size				

Entry				
PVCName				
DLCI				
Local IP				
Subnet Mask				
CIR				
Excess Burst BE				
DC Retry Time				
DC Retry Count				
Compression				
Broadcast				
End to End Frag				
Frag Size				

Utwan configuration, page 3 of 4

UTWAN for PPP

PPP Parameters	
Compression Status	
Fragmentation Status	
Fragmentation Trigger	
Frame Size	
Delay Time	
Low Water Mark	
High Water Mark	

IPCP Options	
IPCP Timeout Value	
IpComp Protocol	
IPCP Max Terminate Request	
IPCP Configure Request	
IPCP Max Configure Nak	

LCP Options	
Receive packet size	
Authentication Mode	
MultilinkMRRU	
MultilinkSSN	
MultilinkEDClass	
MultilinkEDValue	
LCP Timeout Value	
LCP Max Terminate Request	
LCP Max Configure Request	
LCP Max Configure Nak	
LQ Reporting Period	
Retry Tmer Timeout Value	

PPP User List

[illegible]

MSC and Media Bay Module Configurations

MSC Configuration

Active Configuration	Custom 1 Name	Custom 2 Name	Custom 3 Name
Component			
IP clients			
IP trunks			
Media Gateways			
Voice Mail - ACD Ports			
Fax			
WAN			
IVR Ports			
CTE Ports			

Media Bay Module locations

	Bus 02	Bus 03	Bus 04
Type of module			
DIP switch setting			
Installed position			
Lines/DN ranges			
Special equipment			

	Bus 05	Bus 06	Bus 07	Bus 08
Type of module				
DIP switch setting				N/A
Installed position				
Lines/DN ranges				
Special equipment				N/A

Trunk MBM software configuration

Bus Number				
Programmed Bus Type				
	Mod 1	Mod 2	Mod 3	Mod 4
Module mode				
# of lines/loops				
Loop range				
Disconnect timer				
Answer timer				
Protocol				
Protocol Type				
NSF Extension				
B-channel selection sequence				
Clock source				
Remote Capability MWI				
Max Transits				
Host node				

Trunk MBM software configuration continued, page 2 of 3

Bus Number				
Programmed Bus Type				
	Mod 1	Mod 2	Mod 3	Mod 4
Module mode				
# of lines/loops				
Loop range				
Disconnect timer				
Answer timer				
Protocol				
Protocol Type				
NSF Extension				
B-channel selection sequence				
Clock source				
Remote Capability MWI				
Max Transits				
Host node				

Bus Number				
Programmed Bus Type				
	Mod 1	Mod 2	Mod 3	Mod 4
Module mode				
# of lines/loops				
Loop range				
Disconnect timer				
Answer timer				
Protocol				
Protocol Type				
NSF Extension				
B-channel selection sequence				
Clock source				
Remote Capability MWI				
Max Transits				
Host node				

Bus Number				
Programmed Bus Type				
	Mod 1	Mod 2	Mod 3	Mod 4
Module mode				
# of lines/loops				
Loop range				
Disconnect timer				
Answer timer				
Protocol				
Protocol Type				
NSF Extension				
B-channel selection sequence				
Clock source				
Remote Capability MWI				
Max Transits				
Host node				

Trunk MBM software configuration continued, page 3 of 3

PRI-specific configuration

T1 parameters	
---------------	--

Bus #/Module #					
CO fail					
Interface levels					
Framing					
Internal CSU					
CSU line build					
DSX1 build					
Line coding					
Number of lines provisioned					

PRI Call by Call Services

Bus #/Module #					
Translation mode					

Map Table

[illegible]